Abstract:

A method for calculation of the lateral force in a motor
vehicle with an electromechanical or electrohydraulic steering
system is disclosed. The method comprises the following steps:
firstly a steering rod force is detected from a total
restoring torque is calculated. The total restoring torque
comprises restoring torques generated by different forces
acting on the wheels. Said restoring torques include a
restoring torque generated by lateral force and other
restoring torques. The other restoring torques are
quantitatively determined on the basis of measured values and
subtracted from the total restoring torque, in order to
determine the restoring torque generated by lateral force.
Finally, the lateral force is determined from the restoring
torque generated by the lateral force.

(Figure 1)